NOT RECOMMENDED FOR NEW DESIGNS USE GS1A-LTP~GS1M-LTP or GS1AE~GS1ME Series



Micro Commercial Components



Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Low Thermal Resistance
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

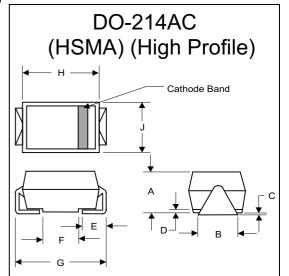
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GS1A	GS1A	50V	35V	50V
GS1B	GS1B	100V	70V	100V
GS1D	GS1D	200V	140V	200V
GS1G	GS1G	400V	280V	400V
GS1J	GS1J	600V	420V	600V
GS1K	GS1K	800V	560V	800V
GS1M	GS1M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

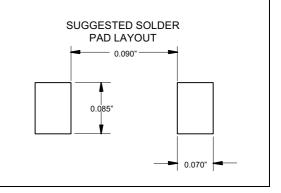
			=
Average Forward current	I _{F(AV)}	1.0A	T _a = 75°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine,
Maximum Instantaneous Forward Voltage	V_{F}	1.1V	I _{FM} = 1.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 50μΑ	T _J = 25°C T _J = 125°C
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V

GS1A THRU GS1M

1 Amp Silicon Rectifier 50 to 1000 Volts



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.078	.116	1.98	2.95		
В	.067	.089	1.70	2.25		
С	.002	.008	.05	.20		
D		.02		.51		
E	.035	.055	.89	1.40		
F	.065	.096	1.65	2.45		
G	.205	.224	5.21	5.69		
Н	.160	.180	4.06	4.57		
J	.100	.112	2.57	2.84		



*Pulse test: Pulse width 300 µsec, Duty cycle 2%

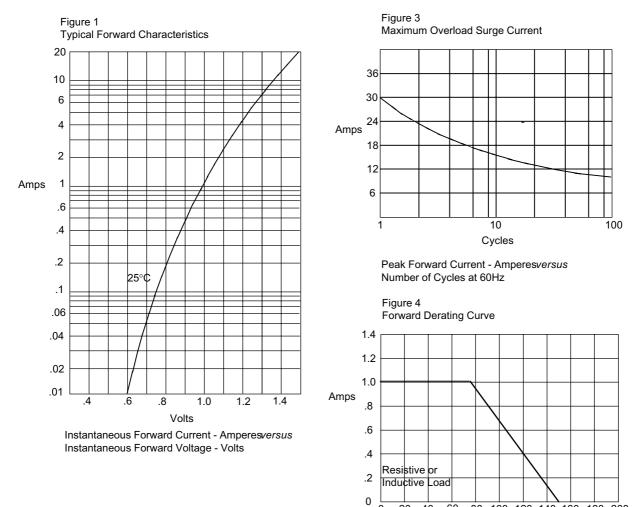
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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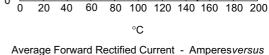


GS1A thru GS1M

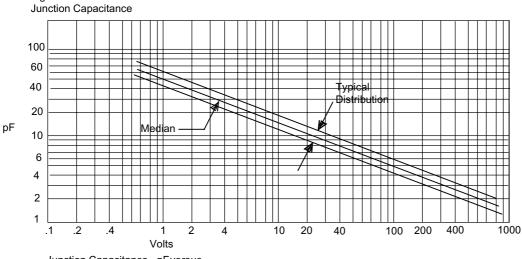
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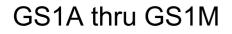
Ambient Temperature -°C

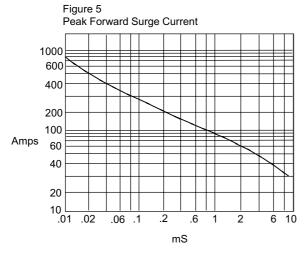


Junction Capacitance - pFversus Reverse Junction Potential (Applied V + 0.7 Volts) - Volts

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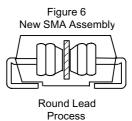
Figure 2





Peak Forward Surge Current - Amperesversus Pulse Duration - Milliseconds (mS)









Ordering Information :

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		

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Micro Commercial Components (MCC): <u>GS1M-TP</u> <u>GS1K-TP</u> <u>GS1G-TP</u> <u>GS1J-TP</u> <u>GS1A-TP</u> <u>GS1B-TP</u> <u>GS1D-TP</u>